

1. A method for the concentration of liquid mixtures, comprising the step of causing a continuous stream of the liquid mixtures to flow in the form of a turbulent thin layer in contact with a heated wall.

- feeding a continuous stream of a liquid mixture into a turbo-concentrator comprising a cylindrical tubular body (1) which has a horizontal axis and which is equipped with an opening (5) for the introduction of the liquid mixture and with an opening (7) for the discharge of the final product, a heating jacket (4) for heating the internal wall of the tubular body to a predetermined temperature, and a bladed rotor (8) rotatably supported in the cylindrical tubular body (1) where it is rotated at circumferential speeds variable from 30 to 50 m/s,
- centrifuging the liquid mixture to form a dynamic and tubular thin layer in which the liquid mixture is maintained in a state of high turbulence by the blades (9) of the bladed rotor (8),
- advancing the dynamic tubular thin layer to the discharge opening (7) of the turbo-concentrator,

causing it to flow substantially in contact with the heated wall of the latter to the discharge opening,
- discharging continuously a stream of concentrated liquid mixture.

3. A method according to Claim 2, wherein a stream of hot dry air is fed into the turbo-concentrator in the same direction as the continuous stream of liquid mixture.

4. A method according to Claim 2, wherein a portion of the continuous stream of concentrated liquid mixture leaving the turbo-concentrator is fed in again continuously upstream of the turbo-concentrator.

5. A method according to Claim 3, wherein a portion of the continuous stream of concentrated liquid mixture leaving the turbo-concentrator is fed in again continuously upstream of the turbo-concentrator.

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